Serial Number: 10/087,190

CRF Processing Date: 2/19/2003
Edited by: _____
Verified by: _____ (STIC staff)

ENTERED

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/087,190

DATE: 02/19/2003
TIME: 14:59:25

Input Set : N:\AMC\087190.txt
Output Set: N:\CRF4\02192003\J087190.raw

```
 4 <110> APPLICANT: Agensys, Inc.
 5         Challita-Eid, Pia M.
 6         Hubert, Rene S.
 7         Raitano, Arthur B.
 8         Faris, Mary
 9         Afar, Daniel E. H.
10         Ge, Wangmao
11         Jakobovits, Aya
12 <120> TITLE OF INVENTION: NUCLEIC ACID AND CORRESPONDING PROTEIN
13         ENTITLED 121P1F1 USEFUL IN TREATMENT AND DETECTION OF CANCER
17 <130> FILE REFERENCE: 51158-20034.20
```
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/087,190
C--> 20 <141> CURRENT FILING DATE: 2003-01-28
```
21 <150> PRIOR APPLICATION NUMBER: US 09/779,250
22 <151> PRIOR FILING DATE: 2001-03-05
23 <160> NUMBER OF SEQ ID NOS: 69
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 254
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo Sapiens
34 <400> SEQUENCE: 1
35 gatcacagtn tttgtatttt tctacttctg cctttagctg ttccctttgg tctcgaagtg 60
36 aagaaagctc ttttgctagc ctggttcgct cttccgtttc acatcggcca attttagctt 120
37 tctcaatgct tttctgtagg cttgcatgct tttgacttcc ctcagacaac tgagattcca 180
38 gaacctccaa cttatgtttc cttgcatgaa gagctttact tggaaaagcc caataataat 240
39 tagaagtttc gatc                                              254
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 867
43 <212> TYPE: DNA
44 <213> ORGANISM: Homo Sapiens
46 <220> FEATURE:
47 <221> NAME/KEY: CDS
48 <222> LOCATION: (82)...(690)
50 <400> SEQUENCE: 2
51 ccaaaatcaa agcggtccgg gcctgtcccg ccctctccc caagcacggg cccggccagc 60
52 ggaagccct gcccctcgc c atg tca aag aaa aaa gga ctg agt gca gaa    111
53                       Met Ser Lys Lys Lys Gly Leu Ser Ala Glu
54                        1               5                   10
56 gaa aag aga act cgc atg atg gaa ata ttt tct gaa aca aag gat gta   159
57 Glu Lys Arg Thr Arg Met Met Glu Ile Phe Ser Glu Thr Lys Asp Val
58              15                  20                  25
60 ttt caa tta aaa gat ttg gat aag att tct ctc aaa gag aaa ggc att   207
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,190

DATE: [illegible]

TIME: [illegible]

Input Set : N:\AMC\087190.txt
Output Set : N:\CRF4\02192003\J087190.raw

```
61  Phe Gln Leu Lys Asp Leu Glu Lys Ile Ala Pro Lys Glu Lys Gly Ile
62           30                  35                  40
64  act gct atg tca gta aaa gaa gtc ctt caa agc tta gtt gat gat ggt    255
65  Thr Ala Met Ser Val Lys Glu Val Leu Gln Ser Leu Val Asp Asp Gly
66           45                  50                  55
68  atg gtt gac tgt gag agg atc gga act tct aat tat tat tgg gct ttt    303
69  Met Val Asp Cys Glu Arg Ile Gly Thr Ser Asn Tyr Tyr Trp Ala Phe
70           60                  65                  70
72  cca agt aaa gct ctt cat gca agg aaa cat aag ttg gag gtt ctg gaa    351
73  Pro Ser Lys Ala Leu His Ala Arg Lys His Lys Leu Glu Val Leu Glu
74  75                  80                  85                  90
76  tct cag ttg tct gag gga agt caa aag cat gca agc cta cag aaa agc    399
77  Ser Gln Leu Ser Glu Gly Ser Gln Lys His Ala Ser Leu Gln Lys Ser
78                  95                  100                 105
80  att gag aaa gct aaa att ggc cga tgt gaa acg gaa gag cga acc agg    447
81  Ile Glu Lys Ala Lys Ile Gly Arg Cys Glu Thr Glu Glu Arg Thr Arg
82                  110                 115                 120
84  cta gca aaa gaa ctt tct tca ctt cgc gac cac agg gaa cag cta aag    495
85  Leu Ala Lys Glu Leu Ser Ser Leu Arg Asp Gln Arg Glu Gln Leu Lys
86                  125                 130                 135
88  gca gaa gta gaa aaa tac aaa gac tgt gat ccg caa gtt gtg gaa gaa    543
89  Ala Glu Val Glu Lys Tyr Lys Asp Cys Asp Pro Gln Val Val Glu Glu
90                  140                 145                 150
92  ata cgc caa gca aat aaa gta gcc aaa gaa gct gct aac aga tgg act    591
93  Ile Arg Gln Ala Asn Lys Val Ala Lys Glu Ala Ala Asn Arg Trp Thr
94  155                 160                 165                 170
96  gat aac ata ttt gca ata aaa tct tgg gcc aaa aga aaa ttt ggg ttt    639
97  Asp Asn Ile Phe Ala Ile Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe
98                  175                 180                 185
100 gaa gaa aat aaa att gat aga act ttt gga att cca gaa gac ttt gac    687
101 Glu Glu Asn Lys Ile Asp Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp
102                 190                 195                 200
104 tac ata gac taaaatattc catggtggtg aaggatgtac aagcttgtga           736
105 Tyr Ile Asp
106                 205
108 atatataat ttaaactat tatctaacta agtgtactga attgtcgttt gcctgtaact  786
109 gtgtttatca tttattaat gttaaataaa gtgtaaatg caaaaaaaa aaaaaaaaaa   836
110 aaaaaaaaaa a                                                     867
111 <210> SEQ ID NO: 3
113 <211> LENGTH: 205
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo Sapiens
117 <400> SEQUENCE: 3
118 Met Ser Lys Lys Lys Gly Leu Ser Ala Glu Glu Lys Arg Thr Arg Met
119 1               5                   10                  15
120 Met Glu Ile Phe Ser Glu Thr Lys Asp Val Phe Gln Leu Lys Asp Leu
121                 20                  25                  30
122 Glu Lys Ile Ala Pro Lys Glu Lys Gly Ile Thr Ala Met Ser Val Lys
123          35                  40                  45
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/087,190

DATE: ...
TIME: ...

Input Set : **N:\AMC\087190.txt**
Output Set : **N:\CRF4\02192003\J087190.raw**

```
124 Glu Val Leu Gln Ser Leu Val Asp Asp Gly Met Val Asp Cys Glu Arg
125      50                      55                60
126 Ile Gly Thr Ser Asn Tyr Tyr Trp Ala Phe Pro Ser Lys Ala Leu His
127 65               70                      75                80
128 Ala Arg Lys His Lys Leu Glu Val Leu Glu Ser Gln Leu Ser Glu Gly
129              85                      90                95
130 Ser Gln Lys His Ala Ser Leu Gln Lys Ser Ile Glu Lys Ala Lys Ile
131              100                     105               110
132 Gly Arg Cys Glu Thr Glu Glu Arg Thr Arg Leu Ala Lys Glu Leu Ser
133          115                     120                   125
134 Ser Leu Arg Asp Gln Arg Glu Gln Leu Lys Ala Glu Val Glu Lys Tyr
135      130                     135                   140
136 Lys Asp Cys Asp Pro Gln Val Val Glu Glu Ile Arg Gln Ala Asn Lys
137 145                 150                     155               160
138 Val Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe Ala Ile
139              165                     170               175
140 Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys Ile Asp
141              180                     185               190
142 Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp
143          195                     200                   205
144 <210> SEQ ID NO: 4
147 <211> LENGTH: 1024
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo Sapiens
151 <220> FEATURE:
152 <221> NAME/KEY: CDS
153 <222> LOCATION: (62)...(459)
155 <400> SEQUENCE: 4
156 caaaatcaa acgcgtccgg gctgtccg ccccctctcc caagcgcggg cccggccagc 60
157 gcaagccct gcgcccgcgc c atg tca aag aaa aaa gga ctg agt gca gaa    111
158                       Met Ser Lys Lys Lys Gly Leu Ser Ala Glu
159                        1                  5                  10
161 gaa aag aga act cgc atg atg gaa ata ttt tct gaa aca aaa gat gta   159
162 Glu Lys Arg Thr Arg Met Met Glu Ile Phe Ser Glu Thr Lys Asp Val
163                15                   20                   25
165 ttt caa tta aaa gac ttg gag aag att gct ccc aaa gag aaa ggc att   207
166 Phe Gln Leu Lys Asp Leu Glu Lys Ile Ala Pro Lys Glu Lys Gly Ile
167                30                   35                   40
169 act gct atg tca gta aaa gaa gtc ctt caa agc tta gtt gat gat ggt   255
170 Thr Ala Met Ser Val Lys Glu Val Leu Gln Ser Leu Val Asp Asp Gly
171           45                   50                   55
173 atg gtt gac tgt gag agg atc gga act tct aat tat tat tgg gct ttt   303
174 Met Val Asp Cys Glu Arg Ile Gly Thr Ser Asn Tyr Tyr Trp Ala Phe
175      60                   65                   70
177 cca agt aaa gct ctt cat gca agg aaa cat aag ttg gag gtt ctg gaa   351
178 Pro Ser Lys Ala Leu His Ala Arg Lys His Lys Leu Glu Val Leu Glu
179 75                   80                   85                   90
181 tct cag gac cct ggc tgc tgc ttc cat gaa ata att aaa gtc tcc tat   399
182 Ser Gln Asp Pro Gly Cys Cys Phe His Glu Ile Ile Lys Val Ser Tyr
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,190

DATE: . . . . .
TIME: . . . .

Input File : N:\AMC\087190.txt
Output File : N:\CRF4\02192003\J087190.raw

```
185  tat aga aaa ttt tgg ctt gtt gca gtg gct gat gcc tgt aat ccc aat   447
186  Tyr Arg Lys Phe Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser
187          110              115              120
189  act ttg gga ggt tattttggt agatcatgat gtgacttttc ccaaccccta      499
190  Thr Leu Gly Gly
191          125
193  catgaagtgc aaaatggagt tgtctgaagg aagtcaaaag catgcaagcc tacagaaaag 559
194  cattgagaaa gctaaaattg gccgatgtga aacggaagag cgaaccaggc tagcaaaaga 619
195  gctttcttca cttcgaacc aaaggaaaca gctaaaatca gaagtagaaa aatacaaaga 679
196  ctgtgatccg caagttgtgg aagaaatacg ccaagcaaat aaagtagcca aaguagctgc 739
197  taacagatgg actgataaca tattcgcaat aaaatcttgg gccaaaagaa aatttgggtt 799
198  tgaagaaaat aaaattgata gaacttttgg aattccagaa gactttgact acatagacta 859
199  aaatattcca tggtggtgaa ggatgtacaa gcttgtgaat atgtaaattt taaactatta 919
210  tctaactaag tgtactgaat tgtcgtttgc ctgtaactgt gtttatcatt ttattaatgt 979
211  taaataaagt gtagaatgca aaaaaaaaaa aaaaaaaaaa aaaaaaaaa       1028
212  <210> SEQ ID NO: 5
214  <211> LENGTH: 126
215  <212> TYPE: PRT
216  <213> ORGANISM: Homo Sapiens
217  <400> SEQUENCE: 5
219  Met Ser Lys Lys Lys Gly Leu Ser Ala Glu Glu Lys Arg Thr Arg Met
220   1               5               10              15
221  Met Glu Ile Phe Ser Glu Thr Lys Asp Val Phe Gln Leu Lys Asp Leu
222          20              25              30
223  Glu Lys Ile Ala Pro Lys Glu Lys Gly Ile Thr Ala Met Ser Val Lys
224          35              40              45
225  Glu Val Leu Gln Ser Leu Val Asp Asp Gly Met Val Asp Cys Glu Arg
226          50              55              60
227  Ile Gly Thr Ser Asn Tyr Tyr Trp Ala Phe Pro Ser Lys Ala Leu His
228  65              70              75              80
229  Ala Arg Lys His Lys Leu Glu Val Leu Glu Ser Gln Asp Pro Gly Cys
230          85              90              95
231  Cys Phe His Glu Ile Ile Lys Val Ser Tyr Tyr Arg Lys Phe Trp Leu
232          100             105             110
233  Gly Ala Val Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly
234          115             120             125
235  <210> SEQ ID NO: 6
236  <211> LENGTH: 1028
239  <212> TYPE: DNA
240  <213> ORGANISM: Homo Sapiens
        <220> FEATURE:
        <221> NAME/KEY: CDS
        <222> LOCATION: (501)...(857)
236  <400> SEQUENCE: 6
237  cttaaatcaa actgttaga gcttgttga cattctcca aaatcgatgg tcttgacage 60
238  ggaagccct gcgcccagcg catgtcaaag aaaaaaggac tgagtgcaga agaaaagaga 120
239  actgcatga tggaaatatt ttctgaaaca aaaatatat ttcaattaaa agattgaac 180
240  aagattgctc ccaaaagaa aggcattact gctatatcag taaaagaagt cctcaaagc 240
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/087,190   DATE: ...
TIME: ...

Input ... : N:\AMC\087190.txt
Output ... : N:\CRF4\02192003\J087190.raw

```
.41 ttattgatg a...tat tt...ttgat aggatcgaaa cttctaatta ttattaggct  ...
.42 ttt...atta ...t...a t...tgata  ...tag ac...t tt ...tctaggct  ...
.43 ...gatgct a...ct...a aa...taaa  ...t...t att a...aaatt ctagctggct  415
.44 acagtagctc acacctatua t...acact ttggcagct  ...caguc gatcacaag  460
.45 t...tttcct  ...t...at ...aag tgc aag at gag ttt tct  gag gga agt  ...
.46                         Met Lys Cys Lys Met Glu Leu Ser Glu Gly Ser
.47                          1                5                   10
.49 caa aag cat gca agc cta cag aaa agc att gag aaa gct aaa att ggc    581
.50 Gln Lys His Ala Ser Leu Gln Lys Ser Ile Glu Lys Ala Lys Ile Gly
.51          15               20                  25
.53 cga tgt gaa acg gaa gag cga acc agg cta gca aaa gag ctt tct tca    629
.54 Arg Cys Glu Thr Glu Glu Arg Thr Arg Leu Ala Lys Glu Leu Ser Ser
.55          30               35                  40
.57 ctt cga gac caa agg gaa cag cta aag gca gaa gta gaa aaa tac aaa    677
.58 Leu Arg Asp Gln Arg Glu Gln Leu Lys Ala Glu Val Glu Lys Tyr Lys
.59      45               50                  55
.61 gac tgt gat ccg caa gtt gtg gaa gaa ata cgc caa gca aat aaa gta    725
.62 Asp Cys Asp Pro Gln Val Val Glu Glu Ile Arg Gln Ala Asn Lys Val
.63  60               65                  70                  75
.65 gcc aaa gaa gct gct aac aga tgg act gat aac ata ttc gca ata aaa    773
.66 Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe Ala Ile Lys
.67              80               85                  90
.69 tct tgg gcc aaa aga aaa ttt ggg ttt gaa gaa aat aaa att gat aga    821
.70 Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys Ile Asp Arg
.71          95               100                 105
.73 act ttt gga att cca gaa gac ttt gac tac ata gac taaaatattc         867
.74 Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp
.75          110                115
.77 catggtggtg aaggatgtac aagcttgtga atatgtaaat tttaaactat tatctaacta  927
.78 agtgtactga attgtcgttt gcctgtaact gtgtttatca ttttattaat gttaaataaa  987
.79 gtgtaaaatg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                      1028
.81 <210> SEQ ID NO: 7
.82 <211> LENGTH: 119
.83 <212> TYPE: PRT
.84 <213> ORGANISM: Homo Sapiens
.86 <400> SEQUENCE: 7
.87 Met Lys Cys Lys Met Glu Leu Ser Glu Gly Ser Gln Lys His Ala Ser
.88  1                5                   10                  15
.89 Leu Gln Lys Ser Ile Glu Lys Ala Lys Ile Gly Arg Cys Glu Thr Glu
.90              20                  25                  30
.91 Glu Arg Thr Arg Leu Ala Lys Glu Leu Ser Ser Leu Arg Asp Gln Arg
.92              35                  40                  45
.93 Glu Gln Leu Lys Ala Glu Val Glu Lys Tyr Lys Asp Cys Asp Pro Gln
.94      50                  55                  60
.95 Val Val Glu Glu Ile Arg Gln Ala Asn Lys Val Ala Lys Glu Ala Ala
.96  65                  70                  75                  80
.97 Asn Arg Trp Thr Asp Asn Ile Phe Ala Ile Lys Ser Trp Ala Lys Arg
.98              85                  90                  95
.99 Lys Ile Gly Ile Glu Glu Asn Lys Ile Arg Arg Thr Phe Gly Ile Pro
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE:
PATENT APPLICATION: US/10/087,190   TIME:

Input Set : N:\AMC\087190.txt
Output Set: N:\CRF4\02192003\J087190.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:29; Xaa Pos. 1,3,13